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Uninhabited Buck Island, 6,000 feet long, 2,500 feet wide, rises 328 feet above sea level, 11/2 miles from the island of St. Croix. The 19,015-acre Buck Island Reef National Monument includes the 176-acre tropical dry forest island and 18,839 acres of submerged land and coral reef system. Proclaimed a national monument in 1961 by President John F. Kennedy, it was expanded in 2001 to preserve one of the Caribbean's finest marine gardens. Endangered and threatened species live and nest here: four species of sea turtles—hawksbill, green, leatherback, and loggerhead—and the St. Croix ground lizard. Elkhorn coral, the first listed marine invertebrate, surrounds two-thirds of the island. Elkhorn coral patch reefs rise to the surface from the seabed as much as 40 feet below. Prehistoric people would canoe from St. Croix and camp on the beach, likely to fish and gather sea turtle eggs and conch. In the 1700s and 1800s the Danish government set up a signal station on the island's highest peak. A signal keeper, his family, and enslaved workers lived nearby.

Coral Reefs

Coral reefs are complex invertebrate colonies of animals called polyps. Each tiny polyp produces a carbonate skeleton that results in massive but fragile formations. Filter feeders, polyps eat floating plankton they trap in their tentacles. As polyps die, new ones grow on their remains to expand the reef. Polyps and the algae (zooxanthellae) living in them have a mutually beneficial relationship enabling coral reefs to support a great diversity of animal and plant life. Rich with life, coral reefs have existed for millions of years. They are as ancient as rain forests.



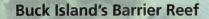
day and feed at night. Its chitin content makes the shell hard. In the ancient coral reef environment. ways to exploit every

niche have evolved. Here nutrients from the sea get extracted and are redistributed, and many organisms find shelter



Coral reefs (in red) grow in tropical waters whose 70°F all year. The best growth occurs just a few

yards from the surface. Recently coral reefs have suffered the effects of



Buck Island Reef's underwater scene humbles human perception with its variety of shape, pattern, color, texture, and movement. Like fortress walls, thick, branching elkhorn corals rise off the seabed to dominate the underwater

The irregular arc of reef around Buck Island's northern and eastern shores creates a lagoon between reef and island. Wide and shallow, the lagoon is seldom over 12 feet deep, and the protecting reef moderates wave action. In these calmer waters brain corals grow larger, almost reaching the surface. Seaward of the barrier reef, elkhorn and star coral patch reefs occur around the island, except to the southwest, where seagrass beds are prevalent.



Coral polyp (800x)

Blue tangs (above) graze er masse in reef shallows. A flamingo tongue sea snail



Fragile and Endangered

Worldwide, coral reefs are disappearing quickly. The national monun They are slow-growing and vulnerable to pollution, sedimentation, overfishing, warming of the seas, and boat damage. When a coral is stressed, the coral polyps expel the internal algae that help nourish them, causing them to appear "bleached." If severely affected, the corals will die. Because corals thrive only in a narrow range of conditions, biologists see their plight as a planetary danger signal.

threatened and endangered species.

Research on hawkshill turtles produces valuable information for their survival in the Caribbean. Human introduction of mongooses and rats, exotic species, may have wiped out the St. Croix ground lizard, which was recently reintroduced on the island (right).



Endangered hawksbill, leatherback, and green sea turtles (left to right) are protected by law. Every two to three sum mers they migrate here to nest in shoreline forests and on beaches. A



chamber, laying sor

covering her nest. Two

emerge and crawl to the sea. Please do not disturb nesting turtles or 140 eggs, and returning

Buck Island Reef National Monument is a Marine



Protected Area. No fishing or taking of animal or plant life is allowed.

Do not collect or even disturb artifacts. They of history. Please tell a



park ranger what you saw and where you saw it. All artifacts are protected by federal law, and they teach us more if left in place.

Buck Island Reef National Monument is one of over 400 parks in the National Park System. To learn more about national parks and National Park Service programs in America's communities visit www.nps.gov.

Least tern



Exploring Buck Island Reef

Protect Your Park

Protect Buck Island's reefs and its endangered species by following all regulations. Fishing, fishing gear, collecting any plant or animal, waterskiing, jetskiing, spearfishing, overnight stays on the island, or anchoring in the lagoon (see large map below) are prohibited in the entire national monument. Boats must pick up a day-use mooring. Scuba diving is prohibited at the underwater trail but allowed at the two scuba moorings in the north lagoon.

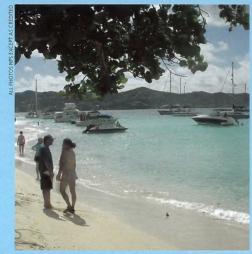
Before setting out, get information and park regulations at the National Park Service visitor contact station at Christiansted National Historic Site. On Buck Island, kiosks at

West Beach and the Diedrichs Point shelter post the regulations.

Corals are not rocks but fragile skeletons. Do not stand or hang on corals. Do not feed the fish.

On the Island Buck Island closes to visitors at sunset. Pets, vehicles (except wheelchairs), artificial light, camping, glass containers, generators, and loud noises are prohibited. No digging on beaches; tent poles, beach umbrellas, and stakes are not allowed.

Build fires only in the grills provided by the National Park Service at



Boats operated by authorized concessioners



Sandy Point orchid

Safety and Other Tips for Sea and Shore

Local custom and town ordinances require that you wear shirts or coverups in Christiansted, Bathing suits alone are not acceptable. Avoid sunburn hazard: Use sunscreen (SPF 30 minimum) and wear a hat and coverup clothing. On an average tour to Buck Island you are exposed to sunlight for four hours. That is enough time to get a severe sunburn, even though the trade winds may give you the illusion of being cool. Bring a bathing suit, casual shoes, and a towel.

A concrete pier used for National Park Service operations and for off-loading passengers provides wheelchair access to Buck Island.

Reef and Marine Hazards Shallow reefs near shore have sharp corals, spiny sea urchins, fire coral, fire worms, and barbed snails. Cuts from marine organisms

infect quickly: Seek medical atten-

tion right away. Portuguese man-o-war and sea wasps, both stinging jellyfish, are rarely found here. Barracuda, stingrays, and sharks are marine wildlife, and are not usually aggressive

Treat them with caution. Hazards Ashore Stay on the beach or designated trail to avoid hazardous plants. The hiking trail

is steep, with loose stones.

toward swimmers and snorkelers.

Contact with poisonous manchineel trees (sap, leaves, bark, or the fruit resembling small green apples) causes chemical burning. Touching your eyes after such contact causes swelling or blindness. Christmas bush looks like holly but causes contact dermatitis, and stinging nettle is painful.

Several other trees and cactuses and other plants bear thorns or barbed hairs to avoid. Beware of centipedes, scorpions, biting spiders, and ants. The National Park Service recommends that you stay on the designated hiking trail and do not stray off the path-to prevent coming into contact with hazardous native plants.





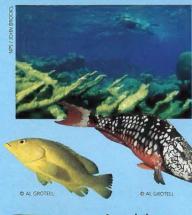
Manchineel tree and its poisonous apples (top). Avoid Christmas bush (above); its oils cause blistering rash like its cousin poison ivy.



What's Happening at Buck Island and Its Reef

Authorized concessioners, under contract with the National Park Island from St. Croix. Reserve trips by phone or website or in person. Visit the park website for current information on the tours.

Snorkeling Beginners can snorkel Buck Island's coral grottoes after a short lesson from the boat crew. You will be guided through the underwater trail—closed sunset to sunrise. Maximum water depth in grottoes is 12 feet. Always snorkel with a buddy and keep well in front of moored boats. Scuba diving is allowed in the Monument only at two designated scuba moorings: shallow, 30- to 40-foot dives go through magnificent haystack formations of elkhorn coral.



A snorkeler on trail, with (top to bottom) stoplight parrotfish, French angelfish, and

Walking Trails Cross the island (45 mins.) from either Diedrichs area. Wear shoes and a shirt and bring drinking water. From West Beach the trail continues up a gentle hillside with turpentine and pigeon-berry trees to the island crest. A side trail to an observation point allows panoramic views of the coral reef and darker, deeper water where the underwater shelf falls off into the Puerto Rico Trench's west branch. The main trail takes you down the south side, with small switchbacks, through frangipani trees, organ pipe cactus, and bromeliads. From Diedrichs Point it's an easy return to West Beach along the shore.

West Beach trail takes you through a manchineel forest to giant tamarind and sandpaper trees. Return via the shoreline to the picnic area.

Research and Monitoring For over 40 years National Park Service barrier reef or push it landward. staff have studied Buck Island, working to restore a natural ecosystem altered by human use and the devastating effects of hurricanes and human-caused disasters-ship groundings, pollution, or oil spills. The National Park Service has removed exotic species, predators like the mongoose and tree rat, and invasive plants. It has re-introduced native plants and animals missing for 200 or more years. With Marine Protected Area status, Buck Island's fishery will again grow and the coral reef may eventually regain its health.

Hurricanes force long-term, dramatic changes in both island and marine systems. They can kill beach forest and disrupt coastal hawksbill turtle nesting areas.

Storm waves can destroy the Monitoring these impacts on coral reef, sea turtles, and fishes will help us understand how global climate change affects these Caribbean island treasures.

Private Boats To take your own boat to Buck Island, visit the National Park Service visitor contact station in Christiansted for information and an anchoring permit. Vessels over 42 feet must anchor at West Beach; visit the underwater trail by dinghy.

Picnic Areas West Beach and Diedrichs Point offer picnic tables, charcoal grills, and vault toilets. Diedrichs has a 20x20-foot shelter. Carry all trash off the island. Do not gather firewood or empty grill ashes on the ground; this soils the

white beach and attracts biting

ants. Put cooled ashes in a container or plastic bag and take leave ashes that are not cooled, extinguish them with sand and leave them in the grill.

Other Sites on St. Croix **Christiansted National Historic Site** preserves Danish-era architecture. Salt River Bay National Historical Park and Ecological Preserve offers tropical land and water ecosystems and evidence of 2,000 years of human history.

Accessibility We strive to make our facilities, services, and programs accessible to all; call or check our website.

Buck Island Reef National Monument is one of over Park System. To learn more about parks and **National Park Service** programs in America's communities visit www. nps.gov.

More Information National Park Service 2100 Church St., #100 Christiansted, VI 00820-4611 340-773-1460 www.nps.gov/buis

National Park Foundation Join the park community. www.nationalparks.org

